

RESPONSE TO OFFICE ACTION

In response to the Office Action mailed November 15, 2007, please enter the following amendments and consider the following remarks.

In the Claims

1. [Cancelled]
2. [Currently Amended] A The method according to claim 1 for improving the colour of a natural colour image comprising the steps of:

generating a greenness band from a multispectral image including blue, green, red and near infrared bands and adjusting the green band using the greenness band,

wherein the greenness band is generated mathematically using the equation:

$$GN = (NIR_{Orig} - R_{Orig} - \lambda) / s$$

where GN is a greenness band, NIR_{Orig} is an original near infrared band, R_{Orig} is an original red band, λ is a threshold and s is a scale factor.

3. [Currently Amended] A The method according to claim 1, for improving the colour of a natural colour image comprising the steps of:

generating a greenness band from a multispectral image including blue, green, red and near infrared bands and

adjusting the green band using the greenness band,

wherein the green band is adjusted mathematically using the equation:

$$G_{Adj} = G_{Orig} + GN$$

where G_{Adj} is an adjusted green band, G_{Orig} is an original green band and GN is a greenness band.

4. [Cancelled]

5. [Currently Amended] ~~The method according to claim 4,~~ The method for improving the colour of a pan-sharpened natural colour image comprising the steps of

generating a greenness band from pan-sharpened image bands including blue, green, red and near infrared bands and

adjusting the pan-sharpened green band using the greenness band,

wherein the greenness band is mathematically generated using the equation:

$$GN_H = (NIR_{PS} - R_{PS} - \lambda) / s$$

where GN_H is a high resolution greenness band, NIR_{PS} is a pan-sharpened near infrared band, R_{PS} is a pan-sharpened red band, λ is a threshold and s is a scale factor.

6. [Cancelled]
7. [Currently Amended] ~~The method according to claim 6,~~ The method for improving the colour of a pan-sharpened natural colour image comprising the steps of

generating a greenness band from a panchromatic image and a pan-sharpened red band; and

adjusting the pan-sharpened green band using the greenness band,

wherein the greenness band is mathematically generated using the equation:

$$GN_H = (Pan_{Orig} - R_{PS} - \lambda) / s$$

where GN_H is a high resolution greenness band, Pan_{Orig} is an original panchromatic band, R_{PS} for pan-sharpened red band, λ is a threshold and s is a scale factor.

8. [Currently Amended] ~~The method according to claim 4,~~ The method for improving the colour of a pan-sharpened natural colour image comprising the steps of

generating a greenness band from pan-sharpened image bands including blue, green, red and near infrared bands and

adjusting the pan-sharpened green band using the greenness band,

wherein the pan-sharpened green band is adjusted mathematically using the equation:

$$G_{HAdj} = G_{PS} + GN_H$$

where G_{HAdj} is an adjusted pan-sharpened green band, G_{PS} is an pan-sharpened green band and GN_H is a high resolution greenness band.

9. [Currently Amended] ~~The method according to claim 1,~~ A method for improving the colour of a natural colour image comprising the steps of

generating a greenness band from a multispectral image including blue, green, red and near infrared bands and

adjusting the green band using the greenness band,

wherein the greenness band is generated using an equation selected from the group comprising equations:

$$GN = (NIR_{Orig} - G_{Orig} - \lambda) / s \text{ and}$$

$$GN = (NIR_{Orig} - B_{Orig} - \lambda) / s,$$

where GN is a greenness band, NIR_{Orig} is an original near infrared band, G_{Orig} is an original green band, B_{Orig} is an original blue band, λ is a threshold and s is a scale factor.

10. [Currently Amended] ~~The method according to claim 1,~~ A method for improving the colour of a natural colour image comprising the steps of
generating a greenness band from a multispectral image
including blue, green, red and near infrared bands and
adjusting the green band using the greenness band,

wherein the greenness band is generated using an equation selected from the group comprising equations:

$$GN_H = (NIR_{PS} - G_{PS} - \lambda) / s \text{ and}$$

$$GN_H = (NIR_{PS} - B_{PS} - \lambda) / s,$$

where GN_H is a high resolution greenness band, NIR_{PS} is a pan-sharpened near infrared band, G_{PS} is a pan-sharpened green band, B_{PS} is a pan-sharpened blue band, λ is a threshold and s is a scale factor.

11. [Currently Amended] ~~The method according to claim 1 and 7,~~ A
method for improving the colour of a natural colour image and pan-
sharpened natural colour image comprising the steps of
generating a greenness band from a multispectral image
including blue, green, red and near infrared bands;

generating a greenness band from a panchromatic image and a pan-sharpened red band; and

adjusting the green band and pan-sharpened green band using the greenness band,

wherein the greenness band is generated using an equation selected from the group comprising the equations:

$$GN_H = (Pan_{Orig} - G_{PS} - \lambda) / s \text{ and}$$

$$GN_H = (Pan_{Orig} - B_{PS} - \lambda) / s,$$

where GN_H is a high resolution greenness band, Pan_{Orig} is an original panchromatic band, G_{PS} for pan-sharpened green band, B_{PS} for pan-sharpened blue band, λ is a threshold and s is a scale factor.

12. [Previously Presented] The method according to claim 7, wherein the greenness bands are generated using an equation selected from the group comprising:

$$GN_H = (Pan_{Orig} - G_{PS} - \lambda) / s \text{ and}$$

$$GN_H = (Pan_{Orig} - B_{PS} - \lambda) / s,$$

where GN_H is a high resolution greenness band, Pan_{Orig} is an original panchromatic band, G_{PS} for pan-sharpened green band, B_{PS} for pan-sharpened blue band, λ is a threshold and s is a scale factor.